AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims

1. (Currently Amended)   A data storage device having a storage means for storing acquired data in a hierarchical structure, comprising:

an image pickup unit for picking up an image;

an extraction means for extracting a piece of code information which is possessed on said image from a piece of image data acquired by picking up an image by the image pickup unit; and

a name generation means for generating a folder name or a file name relating to the ~~piece of image~~ data based on the piece of code information extracted by the extraction means.

2. (Currently Amended)   A data storage device having a storage means for storing acquired data in a hierarchical structure, comprising:

an image pickup unit for picking up an image;

a code recognition unit having a table in which pieces of code information ~~is~~ are respectively corresponded to a plurality of pieces of image data;

an extraction means for extracting a piece of the code information which is possessed on said image, from the table, corresponding to a piece of the image data acquired by picking up an image by the image pickup unit; and

a name generation means for generating a folder name or a file name relating to the ~~piece~~

~~of the image~~ data based on the piece of the code information extracted by the extraction means.

3.   (Currently Amended)   The data storage device according to claim 1, further

comprising a determination means for determining whether or not the piece of the code

information is extracted by the extraction means, wherein when the determination means

determines that the piece of the code information is not extracted by the extraction means, the

name generation means generates the folder name or the file name relating to the ~~piece of the~~

~~image~~ data based on predetermined information.

4.   (Original)   The data storage device according to claim 3, further comprising a report

means for reporting a message that the piece of the code information is not extracted by the

extraction means, when the determination means determines accordingly.

5.   (Previously Presented)   The data storage device according to claim 1, further

comprising:

a folder generation means for generating in the storage means a folder of the folder name

generated by the name generation means; and

a name changing means for changing the folder name or the file name relating to data

stored in the storage means, to the folder name or the file name generated by the name generation

means.

6. (Original) The data storage device according to claim 5, further comprising a reception means for receiving a selection of a first or second processing, wherein when the reception means receives the selection of the first processing, the folder generation means generates in the storage means the folder of the folder name generated by the name generation means, and when the reception means receives the selection of the second processing, the name changing means changes the folder name or the file name relating to the data stored in the storage means, to the folder name or the file name generated by the name generation means.

7. (Currently Amended) An information transmitter that transmits information to outside, comprising:

an image pickup unit for picking up an image;

a code acquisition means for acquiring a code which is possessed on said image from a piece of image data obtained by picking up an image by the image pickup unit;

an analyzing means for analyzing the code acquired by the code acquisition means and ~~acquires~~ acquiring a piece of code information; and

a transmission means for transmitting to outside the piece of code information acquired by the analyzing means.

8. (Original) The information transmitter according to claim 7, further comprising:

a display means for displaying the piece of code information acquired by the analyzing means; and

an instruction reception means for receiving an instruction whether or not the piece of

code information displayed on the display means is transmitted, wherein

the transmission means transmits the piece of code information when an instruction to

transmit the piece of code information is received by the instruction reception means.

9.   (Previously Presented)   The information transmitter according to claim 7, further

comprising an encoding means for encoding the piece of code information acquired by the

analyzing means, wherein the transmission means sends the piece of code information encoded

by the encoding means.

10.   (Previously Presented)   The information transmitter according to claim 7, further

comprising:

a plurality of analyzing means respectively corresponding to different codes; and

a selection means for selecting, based on the code acquired by the code acquisition

means, an analyzing means to analyze the code from the plurality of analyzing means, wherein

the analyzing means selected by the selection means analyzes the code acquired by the

code acquisition means.

11.   (Original)   The information transmitter according to claim 10, further comprising a

storage means for storing the code acquired by the code acquisition means and the piece of code

information acquired by analyzing the code by the analyzing means, for each analyzing means

selected by the selection means.

12. (Currently Amended) A data storage system, comprising:

~~the~~ an information transmitter ~~according to claim 7~~ that transmits information to outside, comprising:

an image pickup unit for picking up an image;

a code acquisition means for acquiring a code which is possessed on said image from a piece of image data obtained by picking up an image by the image pickup unit;

an analyzing means for analyzing the code acquired by the code acquisition means and acquiring a piece of code information; and

a transmission means for transmitting to outside the piece of code information acquired by the analyzing means; and

a data storage device for storing data in a hierarchical structure, the data storage device comprising:

a reception means for receiving the piece of code information transmitted from the information transmitter; and

a name generation means for generating a folder name or a file name relating to the data, based on the piece of code information received by the reception means.

13. (Currently Amended) An information processing system, comprising:

~~the~~ an information transmitter ~~according to claim 7~~ that transmits information to outside, comprising:

an image pickup unit for picking up an image;

a code acquisition means for acquiring a code which is possessed on said

image from a piece of image data obtained by picking up an image by the image

pickup unit;

an analyzing means for analyzing the code acquired by the code

acquisition means and acquiring a piece of code information; and

a transmission means for transmitting to outside the piece of code

information acquired by the analyzing means; and

an information processor for performing a predetermined processing based on the piece

of code information transmitted from the information transmitter.

14. (Currently Amended) A data storage device having recording medium that stores

acquired data in a hierarchical structure, comprising:

an image pickup unit for picking up an image; and

a controller capable of:

extracting a piece of code information which is possessed on said image from a

piece of image data acquired by picking up an image by the image pickup unit, and

generating a folder name or a file name relating to the ~~piece of image~~ data, based

on the piece of code information thus extracted.

15. (Currently Amended) A data storage device having a recording medium that stores

acquired data in a hierarchical structure, comprising:

an image pickup unit for picking up an image;

a code recognition unit having a table in which pieces of code information are respectively corresponded to a plurality of pieces of image data; and

a controller capable of:

extracting a piece of the code information which is possessed on said image, from the table, corresponding to a piece of the image data acquired by picking up an image by the image pickup unit; and

generating a folder name or a file name relating to the ~~piece of the image~~ data, based on the piece of the code information thus extracted.

16.   (Currently Amended)   The data storage device according to claim 14, further comprising a controller capable of:

determining whether or not the piece of code information is extracted; and

generating the folder name or the file name relating to the ~~piece of image~~ data based on predetermined information, when determining that the piece of code information is not extracted.

17.   (Previously Presented)   The data storage device according to claim 16, further comprising a controller capable of reporting a message that the piece of code information is not extracted, when determining accordingly.

18.   (Currently Amended)   The data storage device according to claim 14, further comprising a controller capable of:

generating in the storage medium a folder of a generated folder name; and

changing the folder name or the file name relating to ~~a piece of image~~ data stored in the storage medium, to the generated folder name or file name.

19.   (Previously Presented)   The data storage device according to claim 18, further comprising a controller capable of:

receiving a selection of one of a first processing and a second processing;

generating in the storage medium the folder of the generated folder name, when the selection of the first processing is received, and

changing the folder name or the file name relating to the image data stored in the storage medium, to the generated folder name or the file name, when the selection of the second processing is received.

20.   (Currently Amended)   An information transmitter that transmits information to outside, comprising:

an image pickup unit <u>for picking up an image</u>;

a code extraction unit for acquiring a code <u>which is possessed on said image</u> from a piece of image data obtained by picking up an image by the image pickup unit;

a decoding unit for analyzing the code thus acquired and ~~acquires~~ <u>acquiring</u> a piece of code information; and

a communication unit for transmitting the acquired piece of code information to outside.

21. (Previously Presented) The information transmitter according to claim 20, further comprising:

a display unit for displaying the acquired piece of code information; and

an operation unit for receiving an instruction whether or not the displayed piece of code information is transmitted, wherein

the communication unit transmits the piece of code information when an instruction to transmit the piece of code information is received.

22. (Previously Presented) The information transmitter according to claim 20, further comprising a controller capable of encoding the acquired piece of code information, wherein

the communication unit transmits the encoded piece of code information.

23. (Previously Presented) The information transmitter according to claim 20, wherein

the decoding unit includes a plurality of decoders respectively corresponding to different codes, for analyzing the acquired code to acquire the piece of code information, and

the information transmitter further comprises a decoder selection unit for selecting, based on the code acquired by the code extraction unit, a decoder to analyze the code from the plurality of decoders, wherein

the decoder selected by the decoder selection unit analyzes the code acquired by the code extraction unit.

24. (Previously Presented) The information transmitter according to claim 23, further comprising a controller capable of storing the code acquired by the code extraction unit and the piece of code information obtained by analyzing the acquired code, for each decoder selected by the decoder selection unit.

25. (Currently Amended) A data storage system, comprising:

the an information transmitter according to claim 20 that transmits information to outside, comprising:

an image pickup unit for picking up an image;

a code extraction unit for acquiring a code which is possessed on said image from a piece of image data obtained by picking up an image by the image pickup unit;

a decoding unit for analyzing the code thus acquired and acquiring a piece of code information; and

a communication unit for transmitting the acquired piece of code information to outside; and

a data storage device for storing data in a hierarchical structure, the data storage device comprising:

a communication unit for receiving the piece of code information transmitted from the information transmitter, and

a controller capable of generating a folder name or a file name relating to the data, based on the received piece of code information.

26. (Currently Amended) An information processing system, comprising:

~~the~~ an information transmitter ~~according to claim 20~~ that transmits information to outside, comprising:

an image pickup unit for picking up an image;

a code extraction unit for acquiring a code which is possessed on said image from a piece of image data obtained by picking up an image by the image pickup unit;

a decoding unit for analyzing the code thus acquired and acquiring a piece of code information; and

a communication unit for transmitting the acquired piece of code information to outside; and

an information processor that performs a predetermined processing based on the piece of code information transmitted from the information transmitter.